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1635

Examiner **Docket Number** VIVLEMORE, TRACY ANN 050992.0300.CPUS06

		Information Disclosure Statement
		NON PATENT LITERATURE DOCUMENTS
Examiner		
Initials	Cite No	Authors, Title, Journal, Date, Year, Pages, Volume
	20	LEE, R. C., R. L. FEINBAUM and V. AMBROS. The C. elegans heterochronic gene lin-4 encodes small
		RNAs with antisense complementarity to lin-14 Cell Dec 3 1993 843-854 75
, 1	30	WIGHTMAN, B., I. HA and G. RUVKUN. Posttranscriptional regulation of the heterochronic gene lin-14
	_	by lin-4 mediates temporal pattern formation in C. elegans Cell Dec 3 1993 855-862 75
	40 .	GALLINARO, H., L. DOMENJOUD and M. JACOB. Structural study of the 5' end of a synthetic
ĺ		premessenger RNA from adenovirus. Evidence for a long-range exon-intron interaction J Mol Biol Jul
		15 1994 205-225 240
	50	LU, C. and R. BABLANIAN. Characterization of small nontranslated polyadenylylated RNAs in vaccinia
l		virus-infected cells Proc Natl Acad Sci U S A Mar 5 1996 2037-2042 93
	22	ODANISODD E D. E. D. DEANISON D. ETTION N. C. CONTESTED D. V. C.
	60	CRAWFORD, E. D., E. P. DEANTONI, R. ETZIONI, V. C. SCHAEFER, R. M. OLSON and C. A. ROSS.
		Serum prostate-specific antigen and digital rectal examination for early detection of prostate cancer in a
1 1		national community-based program. The Prostate Cancer Education Council Urology Jun 1996 863-869 47
	70	Engdahl HM, Hjalt TA, Wagner EG. A two unit antisense RNA cassette test system for silencing of
.	70	target genes. Nucleic Acids Res. Aug 15 1997 3218-27 25
	80	SMITH, D. S., P. A. HUMPHREY and W. J. CATALONA. The early detection of prostate carcinoma with
		prostate specific antigen: the Washington University experience Cancer Nov 1 1997 1852-1856 80
		produce opposite uningent the videnting of oniversity experience outlier from 1 1997 1992 1990 00
 	90	DSOUZA, M., N. LARSEN and R. OVERBEEK. Searching for patterns in genomic data. Trends Genet
		Dec 1997 497-498 13
	100 、	MOSS, E. G., R. C. LEE and V. AMBROS. The cold shock domain protein LIN-28 controls
]		developmental timing in C. elegans and is regulated by the lin-4 RNA Cell 1997 637 88
	110	FIRE, A., S. XU, M. K. MONTGOMERY, S. A. KOSTAS, S. E. DRIVER and C. C. MELLO. Potent and
		specific genetic interference by double-stranded RNA in Caenorhabditis elegans Nature Feb 19 1998
		806-811 391
	120	WATERHOUSE, P. M., M. W. GRAHAM and M. B. WANG. Virus resistance and gene silencing in
		plants can be induced by simultaneous expression of sense and antisense RNA Proc Natl Acad Sci U S
		A Nov 10 1998 13959-13964 95
	130	NGO, H., C. TSCHUDI, K. GULL and E. ULLU. Double-stranded RNA induces mRNA degradation in
	4.40	Trypanosoma brucei Proc Natl Acad Sci U S A Dec 8 1998 14687-14692 95
	140	VERMA, S. and F. ECKSTEIN. Modified oligonucleotides: synthesis and strategy for users Annu Rev
	150 >	Biochem ***No date in Pubmed*** 1998 99-134 67 WUCHTY, S., W. FONTANA, I. L. HOFACKER and P. SCHUSTER. Complete suboptimal folding of
	150	
	160	RNA and the stability of secondary structures Biopolymers Feb 1999 145-165 49 MATHEWS, D. H., J. SABINA, M. ZUKER and D. H. TURNER. Expanded sequence dependence of
	100	thermodynamic parameters improves prediction of RNA secondary structure. J Mol Biol. May 21 1999
		911-940 288
	170	CHANG, P. L. Encapsulation for somatic gene therapy Ann N Y Acad Sci Jun 18 1999 146-158 875
		1000 140 100 070
	180	ZHANG, M. Q. Large-scale gene expression data analysis: a new challenge to computational biologists
		Genome Res Aug 1999 681-688 9
	190	GRISARU, D., M. STERNFELD, A. ELDOR, D. GLICK and H. SOREQ. Structural roles of
		acetylcholinesterase variants in biology and pathology Eur J Biochem Sep 1999 672-686 264
V	200	FIRE, A. RNA-triggered gene silencing Trends Genet Sep 1999 358-363 15

Examiner Signature:	Date Considered:

U.S. Application No. Filing Date First Inventor

10/604,942 August 28, 2003 Itzhak Bentwich

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		information disclosure statement
		NON PATENT LITERATURE DOCUMENTS
Examiner		
Initials	Cite No	Authors, Title, Journal, Date, Year, Pages, Volume
	210 、	TABARA, H., M. SARKISSIAN, W. G. KELLY, J. FLEENOR, A. GRISHOK, L. TIMMONS, A. FIRE and
		C. C. MELLO. The rde-1 gene, RNA interference, and transposon silencing in C. elegans Cell Oct 15
[[]		1999 123-132 99
1	220	RYO, A., Y. SUZUKI, K. ICHIYAMA, T. WAKATSUKI, N. KONDOH, A. HADA, M. YAMAMOTO and N.
	`	YAMAMOTO. Serial analysis of gene expression in HIV-1-infected T cell lines FEBS Lett Nov 26
		1999 182-186 462
	230	OLSEN, P. H. and V. AMBROS. The lin-4 regulatory RNA controls developmental timing in
		Caenorhabditis elegans by blocking LIN-14 protein synthesis after the initiation of translation Dev Biol
		Dec 15 1999 671-680 216
	240 >	TUSCHL, T., P. D. ZAMORE, R. LEHMANN, D. P. BARTEL and P. A. SHARP. Targeted mRNA
		degradation by double-stranded RNA in vitro Genes Dev Dec 15 1999 3191-3197 13
	· 260 <	REINHART, B. J., F. J. SLACK, M. BASSON, A. E. PASQUINELLI, J. C. BETTINGER, A. E. ROUGVIE,
		H. R. HORVITZ and G. RUVKUN. The 21-nucleotide let-7 RNA regulates developmental timing in
		Caenorhabditis elegans Nature Feb 24 2000 901-906 403
	270 🔪	PITT, J. N., J. A. SCHISA and J. R. PRIESS. P granules in the germ cells of Caenorhabditis elegans
1 1		adults are associated with clusters of nuclear pores and contain RNA Dev Biol Mar 15 2000 315-333
		219
	280	HAMMOND, S. M., E. BERNSTEIN, D. BEACH and G. J. HANNON. An RNA-directed nuclease
	_	mediates post-transcriptional gene silencing in Drosophila cells Nature Mar 16 2000 293-296 404
	300 、	SLACK, F. J., M. BASSON, Z. LIU, V. AMBROS, H. R. HORVITZ and G. RUVKUN. The lin-41 RBCC
		gene acts in the C. elegans heterochronic pathway between the let-7 regulatory RNA and the LIN-29
		transcription factor Mol Cell Apr 2000 659-669 5
	310	FORTIER, E. and J. M. BELOTE. Temperature-dependent gene silencing by an expressed inverted
	<u> </u>	repeat in Drosophila Genesis Apr 2000 240-244 26
	320	MOURRAIN, P., C. BECLIN, T. ELMAYAN, F. FEUERBACH, C. GODON, J. B. MOREL, D. JOUETTE,
{		A. M. LACOMBE, S. NIKIC, N. PICAULT, K. REMOUE, M. SANIAL, T. A. VO and H. VAUCHERET.
		Arabidopsis SGS2 and SGS3 genes are required for posttranscriptional gene silencing and natural virus
		resistance Cell May 26 2000 533-542 101
	330 🔍	SIJEN, T. and J. M. KOOTER. Post-transcriptional gene-silencing: RNAs on the attack or on the
		defense? Bioessays Jun 2000 520-531 22
	340	BRENNER, S., M. JOHNSON, J. BRIDGHAM, G. GOLDA, D. H. LLOYD, D. JOHNSON, S. LUO, S.
		MCCURDY, M. FOY, M. EWAN, R. ROTH, D. GEORGE, S. ELETR, G. ALBRECHT, E. VERMAAS, S.
		R. WILLIAMS, K. MOON, T. BURCHAM, M. PALLAS, R. B. DUBRIDGE, J. KIRCHNER, K. FEARON, J.
1 1		MAO and K. CORCORAN. Gene expression analysis by massively parallel signature sequencing
		(MPSS) on microbead arrays Nat Biotechnol Jun 2000 630-634 18
	350	RYO, A., Y. SUZUKI, M. ARAI, N. KONDOH, T. WAKATSUKI, A. HADA, M. SHUDA, K. TANAKA, C.
		SATO, M. YAMAMOTO and N. YAMAMOTO. Identification and characterization of differentially
		expressed mRNAs in HIV type 1-infected human T cells AIDS Res Hum Retroviruses Jul 1 2000 995
	000	1005 16
{	360	NILSSON, M., G. BARBANY, D. O. ANTSON, K. GERTOW and U. LANDEGREN. Enhanced detection
]		and distinction of RNA by enzymatic probe ligation Nat Biotechnol Jul 2000 791-793 18
		WENT W. Land A. M. ZALII ED. On
	370 🔍	KENT, W. J. and A. M. ZAHLER. Conservation, regulation, synteny, and introns in a large-scale C.
 	000 -	briggsae-C. elegans genomic alignment Genome Res Aug 2000 1115-1125 10
	380 >	KENNERDELL, J. R. and R. W. CARTHEW. Heritable gene silencing in Drosophila using double-
v l		stranded RNA Nat Biotechnol Aug 2000 896-898 18

Examiner Signature:		Date Considered:	
---------------------	--	------------------	--

U.S. Application No. Filling Date

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Information Disclosure Statement			
		NON PATENT LITERATURE DOCUMENTS	
Examiner			
Initials	Cite No	Authors, Title, Journal, Date, Year, Pages, Volume	
	390	SMITH, N. A., S. P. SINGH, M. B. WANG, P. A. STOUTJESDIJK, A. G. GREEN and P. M.	
$\mid \mathcal{T}_{i} \mid$		WATERHOUSE. Total silencing by intron-spliced hairpin RNAs Nature Sep 21 2000 319-320 407	
$\mid \mathcal{T}_{\mathcal{V}} \mid$	•)	
1	410	VOINNET, O., C. LEDERER and D. C. BAULCOMBE. A viral movement protein prevents spread of the	
		gene silencing signal in Nicotiana benthamiana Cell Sep 29 2000 157-167 103	
	420 <	Mette MF, Aufsatz W, van der Winden J, Matzke MA, Matzke AJ. Transcriptional silencing and promoter	
		methylation triggered by double-stranded RNA. EMBO J. Oct 2 2000 5194-201 19	
	430	YANG, D., H. LU and J. W. ERICKSON. Evidence that processed small dsRNAs may mediate	
		sequence-specific mRNA degradation during RNAi in Drosophila embryos Curr Biol Oct 5 2000 1191	
		1200 10	
	440 🔍	ANANDALAKSHMI, R., R. MARATHE, X. GE, J. M. HERR, JR., C. MAU, A. MALLORY, G. PRUSS, L.	
		BOWMAN and V. B. VANCE. A calmodulin-related protein that suppresses posttranscriptional gene	
	450	silencing in plants Science Oct 6 2000 142-144 290	
	450	FAGARD, M., S. BOUTET, J. B. MOREL, C. BELLINI and H. VAUCHERET. AGO1, QDE-2, and RDE-1	
		are related proteins required for post-transcriptional gene silencing in plants, quelling in fungi, and RNA	
	•	interference in animals Proc Natl Acad Sci U S A Oct 10 2000 11650-11654 97	
	460 \	PASQUINELLI, A. E., B. J. REINHART, F. SLACK, M. Q. MARTINDALE, M. I. KURODA, B. MALLER,	
	400	D. C. HAYWARD, E. E. BALL, B. DEGNAN, P. MULLER, J. SPRING, A. SRINIVASAN, M. FISHMAN, J.	
		FINNERTY, J. CORBO, M. LEVINE, P. LEAHY, E. DAVIDSON and G. RUVKUN. Conservation of the	
		sequence and temporal expression of let-7 heterochronic regulatory RNA Nature Nov 2 2000 86-89	
		1408	
	470	LLAVE, C., K. D. KASSCHAU and J. C. CARRINGTON. Virus-encoded suppressor of	
		posttranscriptional gene silencing targets a maintenance step in the silencing pathway Proc Natl Acad	
		Sci U S A Nov 21 2000 13401-13406 9	
	480	COGONI, C. and G. MACINO. Post-transcriptional gene silencing across kingdoms. Curr Opin Genet	
		Dev Dec 2000 638-643 10	
	500	ELBASHIR, S. M., W. LENDECKEL and T. TUSCHL. RNA interference is mediated by 21- and 22-	
		nucleotide RNAs Genes Dev Jan 15 2001 188-200 15	
1 1	510	BERNSTEIN, E., A. A. CAUDY, S. M. HAMMOND and G. J. HANNON. Role for a bidentate	
		ribonuclease in the initiation step of RNA interference Nature Jan 18 2001 363-366 409	
	520	VAUCHERET, H. and M. FAGARD. Transcriptional gene silencing in plants: targets, inducers and	
		regulators Trends Genet Jan 2001 29-35 17	
	540	THOMAS, C. L., L. JONES, D. C. BAULCOMBE and A. J. MAULE. Size constraints for targeting post-	
		transcriptional gene silencing and for RNA-directed methylation in Nicotiana benthamiana using a potato	
 	FFC	virus X vector Plant J Feb 2001 417-425 25	
	550	GALYAM, N., D. GRISARU, M. GRIFMAN, N. MELAMED-BOOK, F. ECKSTEIN, S. SEIDMAN, A.	
	`	ELDOR and H. SOREQ. Complex host cell responses to antisense suppression of ACHE gene	
 	560	expression Antisense Nucleic Acid Drug Dev Feb 2001 51-57 11	
	570	SHARP, P. A. RNA interference2001 Genes Dev Mar 1 2001 485-490 15 MALLORY, A. C., L. ELY, T. H. SMITH, R. MARATHE, R. ANANDALAKSHMI, M. FAGARD, H.	
}		VAUCHERET, G. PRUSS, L. BOWMAN and V. B. VANCE. HC-Pro suppression of transgene silencing	
	Ì	eliminates the small RNAs but not transgene methylation or the mobile signal. Plant Cell. Mar. 2001	
		571-583 13	
	590	MATZKE, M. A., A. J. MATZKE, G. J. PRUSS and V. B. VANCE. RNA-based silencing strategies in	
		plants Curr Opin Genet Dev Apr 2001 221-227 11	
	600 \	SCHISA, J. A., J. N. PITT and J. R. PRIESS. Analysis of RNA associated with P granules in germ cells	
W		of C. elegans adults Development Apr 2001 1287-1298 128	
		· · · · · · · · · · · · · · · · · · ·	

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		information Disclosure Statement
		NON PATENT LITERATURE DOCUMENTS
Examiner		
Initials	Cite No	Authors, Title, Journal, Date, Year, Pages, Volume
70	610	DI SERIO, F., H. SCHOB, A. IGLESIAS, C. TARINA, E. BOULDOIRES and F. MEINS, JR. Sense- and antisense-mediated gene silencing in tobacco is inhibited by the same viral suppressors and is associated with accumulation of small RNAs Proc Natl Acad Sci U S A May 22 2001 6506-6510 98
}	620	ELBASHIR, S. M., J. HARBORTH, W. LENDECKEL, A. YALCIN, K. WEBER and T. TUSCHL. Duplexes of 21-nucleotide RNAs mediate RNA interference in cultured mammalian cells Nature May 24 2001 494-498 411
	630 <	PICCIN, A., A. SALAMEH, C. BENNA, F. SANDRELLI, G. MAZZOTTA, M. ZORDAN, E. ROSATO, C. P. KYRIACOU and R. COSTA. Efficient and heritable functional knock-out of an adult phenotype in Drosophila using a GAL4-driven hairpin RNA incorporating a heterologous spacer Nucleic Acids Res Jun 15 2001 E55-55 29
	640	VANCE, V. and H. VAUCHERET. RNA silencing in plantsdefense and counterdefense Science Jun 22 2001 2277-2280 292
	650	ARGAMAN, L., R. HERSHBERG, J. VOGEL, G. BEJERANO, E. G. WAGNER, H. MARGALIT and S. ALTUVIA. Novel small RNA-encoding genes in the intergenic regions of Escherichia coli Curr Biol Jun 26 2001 941-950 11
	660	GRISHOK, A., A. E. PASQUINELLI, D. CONTE, N. LI, S. PARRISH, I. HA, D. L. BAILLIE, A. FIRE, G. RUVKUN and C. C. MELLO. Genes and mechanisms related to RNA interference regulate expression of the small temporal RNAs that control C. elegans developmental timing Cell Jul 13 2001 23-34
	670	HUTVAGNER, G., J. MCLACHLAN, A. E. PASQUINELLI, E. BALINT, T. TUSCHL and P. D. ZAMORE. A cellular function for the RNA-interference enzyme Dicer in the maturation of the let-7 small temporal RNA Science Aug 3 2001 834-838 293
	680	HAMMOND, S. M., S. BOETTCHER, A. A. CAUDY, R. KOBAYASHI and G. J. HANNON. Argonaute2, a link between genetic and biochemical analyses of RNAi Science Aug 10 2001 1146-1150 293
	700 .	VAUCHERET, H., C. BECLIN and M. FAGARD. Post-transcriptional gene silencing in plants. J Cell Sci Sep. 2001 3083-3091 114
	710	WESLEY, S. V., C. A. HELLIWELL, N. A. SMITH, M. B. WANG, D. T. ROUSE, Q. LIU, P. S. GOODING, S. P. SINGH, D. ABBOTT, P. A. STOUTJESDIJK, S. P. ROBINSON, A. P. GLEAVE, A. G. GREEN and P. M. WATERHOUSE. Construct design for efficient, effective and high-throughput gene silencing in plants Plant J Sep 2001 581-590 27
	720	MATTICK, J. S. and M. J. GAGEN. The evolution of controlled multitasked gene networks: the role of introns and other noncoding RNAs in the development of complex organisms. Mol Biol Evol. Sep. 2001 1611-1630. 18
	730	CARTER, R. J., I. DUBCHAK and S. R. HOLBROOK. A computational approach to identify genes for functional RNAs in genomic sequences Nucleic Acids Res Oct 1 2001 3928-3938 29
	740	MOSS, E. G. RNA interference: it's a small RNA world Curr Biol Oct 2 2001 R772-775 11
	750	KETTING, R. F., S. E. FISCHER, E. BERNSTEIN, T. SIJEN, G. J. HANNON and R. H. PLASTERK. Dicer functions in RNA interference and in synthesis of small RNA involved in developmental timing in C. elegans Genes Dev Oct 15 2001 2654-2659 15
	760 -	RUVKUN, G. Molecular biology. Glimpses of a tiny RNA world Science Oct 26 2001 797-799 294
	770	LEE, R. C. and V. AMBROS. An extensive class of small RNAs in Caenorhabditis elegans. Science Oct 26 2001 862-864 294
\bigvee	780	LAU, N. C., L. P. LIM, E. G. WEINSTEIN and D. P. BARTEL. An abundant class of tiny RNAs with probable regulatory roles in Caenorhabditis elegans. Science Oct 26 2001 858-862 294

Examiner Signature:	Date Considered:	

U.S. Application No. Filing Date

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		Information Disclosure Statement
		NON PATENT LITERATURE DOCUMENTS
Examiner		
Initials	Cite No	Authors, Title, Journal, Date, Year, Pages, Volume
70.	790	LAGOS-QUINTANA, M., R. RAUHUT, W. LENDECKEL and T. TUSCHL. Identification of novel genes
TU		coding for small expressed RNAs Science Oct 26 2001 853-858 294
1	820	ITAYA, A., A. FOLIMONOV, Y. MATSUDA, R. S. NELSON and B. DING. Potato spindle tuber viroid as
		inducer of RNA silencing in infected tomato. Mol Plant Microbe Interact. Nov. 2001, 1332-1334, 14
}	830 🕆	MATTICK, J. S. Non-coding RNAs: the architects of eukaryotic complexity EMBO Rep Nov 2001
		986-991 2
	840 >	ELBASHIR, S. M., J. MARTINEZ, A. PATKANIOWSKA, W. LENDECKEL and T. TUSCHL. Functional
		anatomy of siRNAs for mediating efficient RNAi in Drosophila melanogaster embryo lysate Embo J Dec
		3 2001 6877-6888 20
	850	AMBROS, V. microRNAs: tiny regulators with great potential Cell Dec 28 2001 823-826 107
	860	BLASZCZYK, J., J. E. TROPEA, M. BUBUNENKO, K. M. ROUTZAHN, D. S. WAUGH, D. L. COURT
		and X. Jl. Crystallographic and modeling studies of RNase III suggest a mechanism for double-
	070	stranded RNA cleavage Structure Dec 2001 1225-1236 9
	870	CRETE, P., S. LEUENBERGER, V. A. IGLESIAS, V. SUAREZ, H. SCHOB, H. HOLTORF, S. VAN
}		EEDEN and F. MEINS. Graft transmission of induced and spontaneous post-transcriptional silencing of
	000	chitinase genes Plant J Dec 2001 493-501 28
	880	SMALLRIDGE, R. A small fortune Nat Rev Mol Cell Biol Dec 2001 867 2
1 1	890 .	EDDY, S. R. Non-coding RNA genes and the modern RNA world Nat Rev Genet Dec 2001 919-929
	900	LLL C. M. miRNA hand detection. Conseq Diamedical Draducts DUC 2009 - 2004 4
	910	LU, C. M. miRNA bead detection Genaco Biomedical Products PHS 398 2001 1
	910	MATZKE, M., A. J. MATZKE and J. M. KOOTER. RNA: guiding gene silencing 2001 1080 293
	920	GROSSHANS, H. and F. J. SLACK. Micro-RNAs: small is plentiful J Cell Biol Jan 7 2002 17-21 156
1 1	320	Tarto do livito, 11. and 1. 0. deport. Micro-HVAs. smail is pientiful dicellibio dall / 2002 17-21 150
	930 .	MESHORER, E., C. ERB, R. GAZIT, L. PAVLOVSKY, D. KAUFER, A. FRIEDMAN, D. GLICK, N. BEN-
1	•	ARIE and H. SOREQ. Alternative splicing and neuritic mRNA translocation under long-term neuronal
		hypersensitivity Science Jan 18 2002 508-512 295
	940	PADDISON, P. J., A. A. CAUDY and G. J. HANNON. Stable suppression of gene expression by RNAi
		in mammalian cells Proc Natl Acad Sci U S A Feb 5 2002 1443-1448 99
	950	MOSS, E. G. MicroRNAs: hidden in the genome Curr Biol Feb 19 2002 R138-140 12
	960	BANERJEE, D. and F. SLACK. Control of developmental timing by small temporal RNAs: a paradigm
		for RNA-mediated regulation of gene expression Bioessays Feb 2002 119-129 24
	970	ELBASHIR, S. M., J. HARBORTH, K. WEBER and T. TUSCHL. Analysis of gene function in somatic
11 11 11		mammalian cells using small interfering RNAs Methods Feb 2002 199-213 26
	980	HAN, Y. and D. GRIERSON. Relationship between small antisense RNAs and aberrant RNAs
	`	associated with sense transgene mediated gene silencing in tomato Plant J Feb 2002 509-519 29
	990	NICHOLSON, R. H. and A. W. NICHOLSON. Molecular characterization of a mouse cDNA encoding
	•	Dicer, a ribonuclease III ortholog involved in RNA interference Mamm Genome Feb 2002 67-73 13
11	1000	PUERTA-FERNANDEZ, E., A. BARROSO-DELJESUS and A. BERZAL-HERRANZ. Anchoring hairpin
		ribozymes to long target RNAs by loop-loop RNA interactions. Antisense Nucleic Acid Drug Dev. Feb.
		2002 1-9 12
$\sqrt{ }$	1010	GIORDANO, E., R. RENDINA, I. PELUSO and M. FURIA. RNAi triggered by symmetrically transcribed
A		transgenes in Drosophila melanogaster Genetics Feb 2002 637-648 160

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	Date Combider cu.

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		Information Disclosure Statement
		NON PATENT LITERATURE DOCUMENTS
Examiner		
initials	Clte No	Authors, Title, Journal, Date, Year, Pages, Volume
	1020	MARTENS, H., J. NOVOTNY, J. OBERSTRASS, T. L. STECK, P. POSTLETHWAIT and W. NELLEN.
	1020	RNAi in Dictyostelium: the role of RNA-directed RNA polymerases and double-stranded RNase Mol Biol
ITVI		Cell Feb 2002 445-453 13
1,	1030	MOURELATOS, Z., J. DOSTIE, S. PAUSHKIN, A. SHARMA, B. CHARROUX, L. ABEL, J.
1	1000	RAPPSILBER, M. MANN and G. DREYFUSS. miRNPs: a novel class of ribonucleoproteins containing
		numerous microRNAs Genes Dev Mar 15 2002 720-728 16
	1040	SEGGERSON, K., L. TANG and E. G. MOSS. Two genetic circuits repress the Caenorhabditis elegans
	1040	heterochronic gene lin-28 after translation initiation Dev Biol Mar 15 2002 215-225 243
	•	Thereform only gene in 120 after translation mittation (Dev Biol Mar 15 2002 215-225 245
	1050	MOREL, J. B., C. GODON, P. MOURRAIN, C. BECLIN, S. BOUTET, F. FEUERBACH, F. PROUX and
	1000	H. VAUCHERET. Fertile hypomorphic ARGONAUTE (ago1) mutants impaired in post-transcriptional
		gene silencing and virus resistance Plant Cell Mar 2002 629-639 14
	1060	CATALANOTTO, C., G. AZZALIN, G. MACINO and C. COGONI. Involvement of small RNAs and role
	1000	of the que genes in the gene silencing pathway in Neurospora Genes Dev Apr 1 2002 790-795 16
	•	of the que genes in the gene sheriding pathway in Neurospora. Genes Bev. Apr. 1 2002 750-755 10
	1070 -	BOUTLA, A., K. KALANTIDIS, N. TAVERNARAKIS, M. TSAGRIS and M. TABLER. Induction of RNA
.		interference in Caenorhabditis elegans by RNAs derived from plants exhibiting post-transcriptional gene
		silencing Nucleic Acids Res Apr 1 2002 1688-1694 30
	1080	PASQUINELLI, A. E. and G. RUVKUN. Control of developmental timing by micrornas and their targets
		Annu Rev Cell Dev Biol Epub 2002 Apr 2. 2002 495-513 18
	1090	PADDISON, P. J., A. A. CAUDY, E. BERNSTEIN, G. J. HANNON and D. S. CONKLIN. Short hairpin
		RNAs (shRNAs) induce sequence-specific silencing in mammalian cells Genes Dev Apr 15 2002
		948-958 16
	1100 •	BECLIN, C., S. BOUTET, P. WATERHOUSE and H. VAUCHERET. A branched pathway for transgene-
		induced RNA silencing in plants Curr Biol Apr 16 2002 684-688 12
	1110	EDDY, S. R. Computational genomics of noncoding RNA genes Cell Apr 19 2002 137-140 109
	Ï	1
	1120	LAGOS-QUINTANA, M., R. RAUHUT, A. YALCIN, J. MEYER, W. LENDECKEL and T. TUSCHL.
		Identification of tissue-specific microRNAs from mouse Curr Biol Apr 30 2002 735-739 12
	1130	KENT, W. J. BLATthe BLAST-like alignment tool Genome Res Apr 2002 656-664 12
	1140	HUTVAGNER, G. and P. D. ZAMORE. RNAi: nature abhors a double-strand. Curr Opin Genet Dev
		Apr 2002 225-232 12
	1150	NILSSON, M., J. BANER, M. MENDEL-HARTVIG, F. DAHL, D. O. ANTSON, M. GULLBERG and U.
		LANDEGREN. Making ends meet in genetic analysis using padlock probes. Hum Mutat. Apr. 2002
		410-415 19
	1160	PASQUINELLI, A. E. MicroRNAs: deviants no longer Trends Genet Apr 2002 171-173 18
	1170	LAI, E. C. Micro RNAs are complementary to 3' UTR sequence motifs that mediate negative post-
		transcriptional regulation Nat Genet Apr 2002 363-364 30
	1180 、	SCHWARZ, D. S. and P. D. ZAMORE. Why do miRNAs live in the miRNP? Genes Dev May 1 2002
		1025-1031 16
	1190	BRANTL, S. Antisense-RNA regulation and RNA interference Biochim Biophys Acta May 3 2002 15
		25 1575
1	1200	LI, H., W. X. LI and S. W. DING. Induction and suppression of RNA silencing by an animal virus
		Science May 17 2002 1319-1321 296
ا باد ا	1210	ZAMORE, P. D. Ancient pathways programmed by small RNAs Science May 17 2002 1265-1269
<u> </u>		296

Examiner Signature:	Date Considered:	

U.S. Application No. Filing Date First Inventor 10/604,942 August 28, 2003 Itzhak Bentwich

Art Unit

1635

Examiner VIVLEMORE, TRACY ANN Docket Number 050992.0300.CPUS06

		information disclosure Statement
		NON PATENT LITERATURE DOCUMENTS
Examiner		
Initials	Cite No	Authors, Title, Journal, Date, Year, Pages, Volume
	1220	CHEN, S., E. A. LESNIK, T. A. HALL, R. SAMPATH, R. H. GRIFFEY, D. J. ECKER and L. B. BLYN. A
		bioinformatics based approach to discover small RNA genes in the Escherichia coli genome
TV		Biosystems Mar-May 2002 157-177 65
1	1230 、	LEE, N. S., T. DOHJIMA, G. BAUER, H. LI, M. J. LI, A. EHSANI, P. SALVATERRA and J. ROSSI.
1		Expression of small interfering RNAs targeted against HIV-1 rev transcripts in human cells Nat
		Biotechnol May 2002 500-505 20
	1240	DRAGHICI, S. Statistical intelligence: effective analysis of high-density microarray data. Drug Discov
	1050	Today Jun 1 2002 S55-63 7
	1250 .	SILHAVY, D., A. MOLNAR, A. LUCIOLI, G. SZITTYA, C. HORNYIK, M. TAVAZZA and J. BURGYAN. A
		viral protein suppresses RNA silencing and binds silencing-generated, 21- to 25-nucleotide double-
	1000	stranded RNAs Embo J Jun 17 2002 3070-3080 21
	1260	AYASH-RASHKOVSKY, M., Z. WEISMAN, J. DIVELEY, R. B. MOSS, Z. BENTWICH and G. BORKOW.
		Generation of Th1 immune responses to inactivated, gp120-depleted HIV-1 in mice with a dominant Th2
		biased immune profile via immunostimulatory [correction of imunostimulatory] oligonucleotides
[relevance to AIDS vaccines in developing countries Vaccine Jun 21 2002 2684-2692 20
	1270 •	TABARA, H., E. YIGIT, H. SIOMI and C. C. MELLO. The dsRNA binding protein RDE-4 interacts with
	12.0	RDE-1, DCR-1, and a DExH-box helicase to direct RNAi in C. elegans Cell Jun 28 2002 861-871
		109
	1280	BETTENCOURT, R., O. TERENIUS and I. FAYE. Hemolin gene silencing by ds-RNA injected into
		Cecropia pupae is lethal to next generation embryos Insect Mol Biol Jun 2002 267-271 11
	•	\
	1290	HOOPER, N. M. and A. J. TURNER. The search for alpha-secretase and its potential as a therapeutic
		approach to Alzheimer s disease Curr Med Chem Jun 2002 1107-1119 9
	1300	LIU, Q., S. SINGH and A. GREEN. High-oleic and high-stearic cottonseed oils: nutritionally improved
1 1		cooking oils developed using gene silencing J Am Coll Nutr Jun 2002 205S-211S 21
}	1310	ZENG, Y., E. J. WAGNER and B. R. CULLEN. Both natural and designed micro RNAs can inhibit the
	•	expression of cognate mRNAs when expressed in human cells Mol Cell Jun 2002 1327-1333 9
	1000	MONANHIO M. T. O. D. DETEROEN, D. D. HAINEO, I. OHEN and D. A. CHARO. Compailed in the
	1320	MCMANUS, M. T., C. P. PETERSEN, B. B. HAINES, J. CHEN and P. A. SHARP. Gene silencing using
	1220	micro-RNA designed hairpins Rna Jun 2002 842-850 8
	1330	REINHART, B. J., E. G. WEINSTEIN, M. W. RHOADES, B. BARTEL and D. P. BARTEL. MicroRNAs in plants. Genes Dev. Jul 1 2002 1616-1626 16
 	1340	MCCAFFREY, A. P., L. MEUSE, T. T. PHAM, D. S. CONKLIN, G. J. HANNON and M. A. KAY. RNA
	1040 (interference in adult mice Nature Jul 4 2002 38-39 418
	1350	HANNON, G. J. RNA interference Nature Jul 11 2002 244-251 418
	1360	DENNIS, C. The brave new world of RNA Nature Jul 11 2002 122-124 418
	1370	JACQUE, J. M., K. TRIQUES and M. STEVENSON. Modulation of HIV-1 replication by RNA
		interference Nature Jul 25 2002 435-438 418
	1380	CULLEN, B. R. RNA interference: antiviral defense and genetic tool Nat Immunol Jul 2002 597-599
		3
	1390 •	MA, C. and A. MITRA. Intrinsic direct repeats generate consistent post-transcriptional gene silencing in
		tobacco Plant J Jul 2002 37-49 31
	1400	NOVINA, C. D., M. F. MURRAY, D. M. DYKXHOORN, P. J. BERESFORD, J. RIESS, S. K. LEE, R. G.
1/2		COLLMAN, J. LIEBERMAN, P. SHANKAR and P. A. SHARP. siRNA-directed inhibition of HIV-1
		infection Nat Med Jul 2002 681-686 8

Examiner Signature:	Date Considered:	

Ù.S. Application No.

10/604,942 Filing Date August 28, 2003 Itzhak Bentwich First Inventor

Art Unit

Examiner Docket Number 1635 VIVLEMORE, TRACY ANN 050992.0300.CPUS06

		Information Disclosure Statement	
		NON PATENT LITERATURE DOCUMENTS	
Examiner			
Initials Cite No Authors, Title, Journal, Date, Year, Pages, Volume			
	1410 、	POMERANTZ, R. J. RNA interference meets HIV-1: will silence be golden? Nat Med Jul 2002 659	
TV		660 8	
}	1420 .	ZENG, Y. and B. R. CULLEN. RNA interference in human cells is restricted to the cytoplasm. Rna. Jul.	
	١	2002 855-860 8	
1 1	1430	XIANG, C. C., O. A. KOZHICH, M. CHEN, J. M. INMAN, Q. N. PHAN, Y. CHEN and M. J.	
1 1		BROWNSTEIN. Amine-modified random primers to label probes for DNA microarrays Nat Biotechnol	
	-	Jul 2002 738-742 20	
	1440	LLAVE, C., K. D. KASSCHAU, M. A. RECTOR and J. C. CARRINGTON. Endogenous and silencing-	
		associated small RNAs in plants Plant Cell Jul 2002 1605-1619 14	
1 1	1450	RHOADES, M. W., B. J. REINHART, L. P. LIM, C. B. BURGE, B. BARTEL and D. P. BARTEL.	
	1.100	Prediction of plant microRNA targets Cell Aug 23 2002 513-520 110	
i	1460	HIPFNER, D. R., K. WEIGMANN and S. M. COHEN. The bantam gene regulates Drosophila growth	
	1.470	Genetics Aug 2002 1527-1537 161	
į	1470	LIU, Q., S. P. SINGH and A. G. GREEN. High-stearic and High-oleic cottonseed oils produced by	
	•	hairpin RNA-mediated post-transcriptional gene silencing Plant Physiol Aug 2002 1732-1743 129	
	1480	STOUTJESDIJK, P. A., S. P. SINGH, Q. LIU, C. J. HURLSTONE, P. A. WATERHOUSE and A. G.	
i		GREEN. hpRNA-mediated targeting of the Arabidopsis FAD2 gene gives highly efficient and stable	
1 1		silencing Plant Physiol Aug 2002 1723-1731 129	
	1490	SUZUMA, S., S. ASARI, K. BUNAI, K. YOSHINO, Y. ANDO, H. KAKESHITA, M. FUJITA, K.	
1 1		NAKAMURA and K. YAMANE. Identification and characterization of novel small RNAs in the aspS-yrvN	
- 1		intergenic region of the Bacillus subtilis genome Microbiology Aug 2002 2591-2598 148	
	`)	
	1500	MILLIGAN, L., T. FORNE, E. ANTOINE, M. WEBER, B. HEMONNOT, L. DANDOLO, C. BRUNEL and	
1 1		G. CATHALA. Turnover of primary transcripts is a major step in the regulation of mouse H19 gene	
		expression EMBO Rep Aug 2002 774-779 3	
- 1 1	1510	HAMILTON, A., O. VOINNET, L. CHAPPELL and D. BAULCOMBE. Two classes of short interfering	
		RNA in RNA silencing Embo J Sep 2 2002 4671-4679 21	
l l	1520	LEE, Y., K. JEON, J. T. LEE, S. KIM and V. N. KIM. MicroRNA maturation: stepwise processing and	
		subcellular localization Embo J Sep 2 2002 4663-4670 21	
	1530 ,	KLAHRE, U., P. CRETE, S. A. LEUENBERGER, V. A. IGLESIAS and F. MEINS, JR. High molecular	
		Weight RNAs and small interfering RNAs induce systemic posttranscriptional gene silencing in plants	
	4540	Proc Natl Acad Sci U S A Sep 3 2002 11981-11986 99	
1	1540	PARK, W., J. LI, R. SONG, J. MESSING and X. CHEN. CARPEL FACTORY, a Dicer homolog, and	
1 1		HEN1, a novel protein, act in microRNA metabolism in Arabidopsis thaliana Curr Biol Sep 3 2002	
	1550	1484-1495 12 JIANG, M. and J. MILNER. Selective silencing of viral gene expression in HPV-positive human cervical	
	1550 ,	carcinoma cells treated with siRNA, a primer of RNA interference. Oncogene. Sep 5 2002 6041-6048	
1 1		21	
	1560	MARTINEZ, J., A. PATKANIOWSKA, H. URLAUB, R. LUHRMANN and T. TUSCHL. Single-stranded	
	.500	antisense siRNAs guide target RNA cleavage in RNAi Cell Sep 6 2002 563-574 110	
	1570	ALLSHIRE, R. Molecular biology. RNAi and heterochromatina hushed-up affair Science Sep 13	
	.5.0	2002 1818-1819 297	
	1580	REINHART, B. J. and D. P. BARTEL. Small RNAs correspond to centromere heterochromatic repeats	
	,	Science Sep 13 2002 1831 297	
	1590 -	VOLPE, T. A., C. KIDNER, I. M. HALL, G. TENG, S. I. GREWAL and R. A. MARTIENSSEN. Regulation	
VI		of heterochromatic silencing and histone H3 lysine-9 methylation by RNAi Science Sep 13 2002	
•		1833-1837 297	
	ningr Signa	•	

Examiner	Signature:	 Date Considered:	
			_

U.S. Application No.

Filing Date
First Inventor

10/604,942 August 28, 2003 Itzhak Bentwich

Art Unit

1635

Examiner
Docket Number

VIVLEMORE, TRACY ANN 050992.0300.CPUS06

Examiner Signature:

Information Disclosure Statement

		information Disclosure Statement					
		NON PATENT LITERATURE DOCUMENTS					
Examiner							
initials	Cite No						
TV	1600						
1	1610	LLAVE, C., Z. XIE, K. D. KASSCHAU and J. C. CARRINGTON. Cleavage of Scarecrow-like mRNA					
[]		targets directed by a class of Arabidopsis miRNA Science Sep 20 2002 2053-2056 297					
	1620	MOCHIZUKI, K., N. A. FINE, T. FUJISAWA and M. A. GOROVSKY. Analysis of a piwi-related gene					
	_	implicates small RNAs in genome rearrangement in tetrahymena Cell Sep 20 2002 689-699 110					
1	1630	HUTVAGNER, G. and P. D. ZAMORE. A microRNA in a multiple-turnover RNAi enzyme complex					
		Science Sep 20 2002 2056-2060 297					
1 1 1	1640	COBURN, G. A. and B. R. CULLEN. Potent and specific inhibition of human immunodeficiency virus					
		type 1 replication by RNA interference J Virol Sep 2002 9225-9231 76					
	1650 🥆	CAUDY, A. A., M. MYERS, G. J. HANNON and S. M. HAMMOND. Fragile X-related protein and VIG					
 	4000	associate with the RNA interference machinery Genes Dev Oct 1 2002 2491-2496 16					
	1660 🥆	ISHIZUKA, A., M. C. SIOMI and H. SIOMI. A Drosophila fragile X protein interacts with components of					
	4.070	RNAi and ribosomal proteins Genes Dev Oct 1 2002 2497-2508 16					
	1670	VOINNET, O. RNA silencing: small RNAs as ubiquitous regulators of gene expression. Curr Opin Plant					
	1000	Biol Oct 2002 444-451 5					
	1680	GOLDEN, T. A., S. E. SCHAUER, J. D. LANG, S. PIEN, A. R. MUSHEGIAN, U. GROSSNIKLAUS, D. W. MEINKE and A. RAY. SHORT INTEGUMENTS1/SUSPENSOR1/CARPEL FACTORY, a Dicer					
		homolog, is a maternal effect gene required for embryo development in Arabidopsis Plant Physiol Oct					
		2002 808-822 130					
	1690 .	MERKLE, I., M. J. VAN OOIJ, F. J. VAN KUPPEVELD, D. H. GLAUDEMANS, J. M. GALAMA, A.					
	1050	HENKE, R. ZELL and W. J. MELCHERS. Biological significance of a human enterovirus B-specific RNA					
		element in the 3' nontranslated region J Virol Oct 2002 9900-9909 76					
	1700	FROEYEN, M. and P. HERDEWIJN. RNA as a target for drug design, the example of Tat-TAR					
		interaction Curr Top Med Chem Oct 2002 1123-1145 2					
	1710	CARMELL, M. A., Z. XUAN, M. Q. ZHANG and G. J. HANNON. The Argonaute family: tentacles that					
	•	reach into RNAi, developmental control, stem cell maintenance, and tumorigenesis. Genes Dev. Nov. 1					
		2002 2733-2742 16					
	1720	PROVOST, P., D. DISHART, J. DOUCET, D. FRENDEWEY, B. SAMUELSSON and O. RADMARK.					
1 1 1	_	Ribonuclease activity and RNA binding of recombinant human Dicer Embo J Nov 1 2002 5864-5874					
		21					
	1730	ZHANG, H., F. A. KOLB, V. BRONDANI, E. BILLY and W. FILIPOWICZ. Human Dicer preferentially					
	•	cleaves dsRNAs at their termini without a requirement for ATP Embo J Nov 1 2002 5875-5885 21					
	1740	MALLORY, A. C., B. J. REINHART, D. BARTEL, V. B. VANCE and L. H. BOWMAN. A viral suppressor					
		of RNA silencing differentially regulates the accumulation of short interfering RNAs and micro-RNAs in					
 		tobacco Proc Natl Acad Sci U S A Nov 12 2002 15228-15233 99					
	1750	GOTTESMAN, S. Stealth regulation: biological circuits with small RNA switches Genes Dev Nov 15					
 	4700	2002 2829-2842 16					
	1760	CALÍN, G. A., C. D. DUMITRU, M. SHIMIZU, R. BICHI, S. ZUPO, E. NOCH, H. ALDLER, S. RATTAN,					
		M. KEATING, K. RAI, L. RASSENTI, T. KIPPS, M. NEGRINI, F. BULLRICH and C. M. CROCE.					
		Frequent deletions and down-regulation of micro- RNA genes miR15 and miR16 at 13q14 in chronic					
		lymphocytic leukemia Proc Natl Acad Sci U S A Nov 26 2002 15524-15529 99					
 	1770	GAUDILLIERE, B., Y. SHI and A. BONNI. RNA interference reveals a requirement for myocyte					
\ \	1110	enhancer factor 2A in activity-dependent neuronal survival J Biol Chem Nov 29 2002 46442-46446					
🗸		277					
		[21]					

Date Considered:

U.S. Application No.

Filing Date First Inventor 10/604,942 August 28, 2003

First Inver Art Unit Itzhak Bentwich 1635

Examiner Docket Number VIVLEMORE, TRACY ANN 050992.0300.CPUS06

		NON PATENT LITERATURE DOCUMENTS		
Examiner				
Initials Cite No Authors, Title, Journal, Date, Year, Pages, Volume				
TV	1780	JONES, L. Revealing micro-RNAs in plants Trends Plant Sci Nov 2002 473-475 7		
1	1790	SCHAUER, S. E., S. E. JACOBSEN, D. W. MEINKE and A. RAY. DICER-LIKE1: blind men and		
		elephants in Arabidopsis development Trends Plant Sci Nov 2002 487-491 7		
1	1830 🥄	HUTTENHOFER, A., J. BROSIUS and J. P. BACHELLERIE. RNomics: identification and function of		
		small, non-messenger RNAs Curr Opin Chem Biol Dec 2002 835-843 6		
1 1	1840	WOOD, N. T. Unravelling the molecular basis of viral suppression of PTGS Trends Plant Sci 2002		
		384 7		
1 1		COHEN, O., C. ERB, D. GINZBERG, Y. POLLAK, S. SEIDMAN, S. SHOHAM, R. YIRMIYA and H.		
		SOREQ. Neuronal overexpression of "readthrough" acetylcholinesterase is associated with antisense-		
1		suppressible behavioral impairments Mol Psychiatry ***No date in pubmed*** 2002 874-885 7		
	ļ			
	1860			
]	and V. B. VANCE. RNA silencing and the mobile silencing signal Plant Cell ***No date in pubmed***		
$\bot V$	L	2002 S289-301 14 Suppl		

Examiner Signature:	/Tracy Vivlemore/	Date Considered:	10/19/2006	
---------------------	-------------------	------------------	------------	--

U.S. Application No. 10/604,942

Filing Date

August 28, 2003 Itzhak Bentwich

First Inventor Art Unit

1635

Examiner Docket Number VIVLEMORE, TRACY ANN 050992.0300.CPUS06

U.S. Patent Dod	cuments			
Examiner Initials	Cite No#	Publication Number	Publication Date	Name of Patentee
TV	A3 ~	US-20020086356	07/04/02	Tuschi, Thomas et al.
Foreign Patent	Docume	nts		
Examiner Initials	Cite No#	Publication Number	Publication Date	Name of Patentee
Ty	B2	WO 02/44321	06/06/02	TUSCHL, Thomas et al.
77	B4 `	WO 01/68836	09/20/01	BEACH, David
	B5	WO 02/094185	11/28/02	BEIGELMAN, Leonid et al

Examiner Signature:	Date Considered: